

Climate Change in Encinitas



It's getting warmer

The last 17 warmest years on record have all occurred in the last 18 years
(NOAA, 2016)



Sea level is rising

Global sea level has risen 7 inches over the last 100 years and is projected to rise another 12-36 inches in the next 100 years
(IPCC, 2016)



The coast is at risk

Strong storms and extreme tides contribute to coastal erosion, threatening our beaches, bluffs, and coastal infrastructure.

(NOAA, 2016)

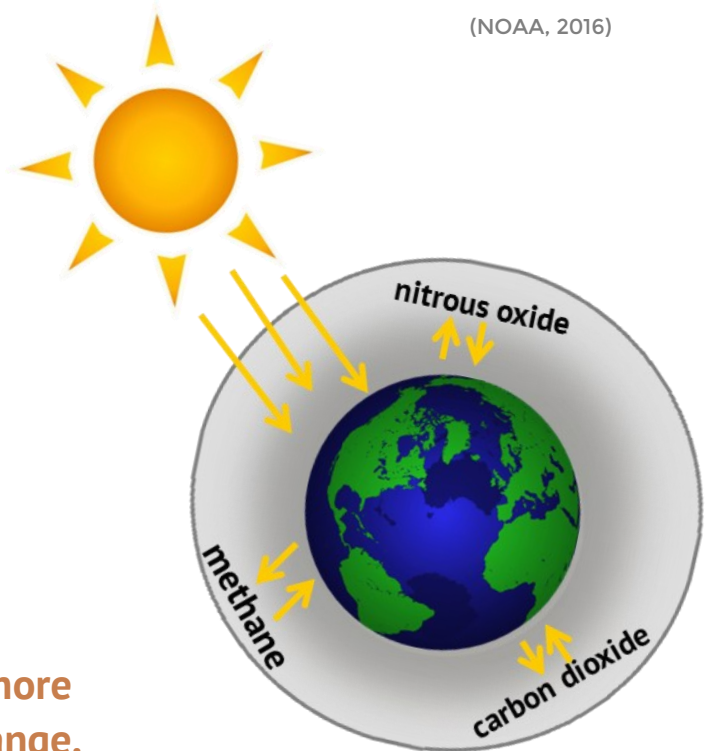
What Got Us Here?

When released into the atmosphere greenhouse gases (GHGs), like carbon dioxide, methane, and nitrous oxide, hold in heat from the sun.

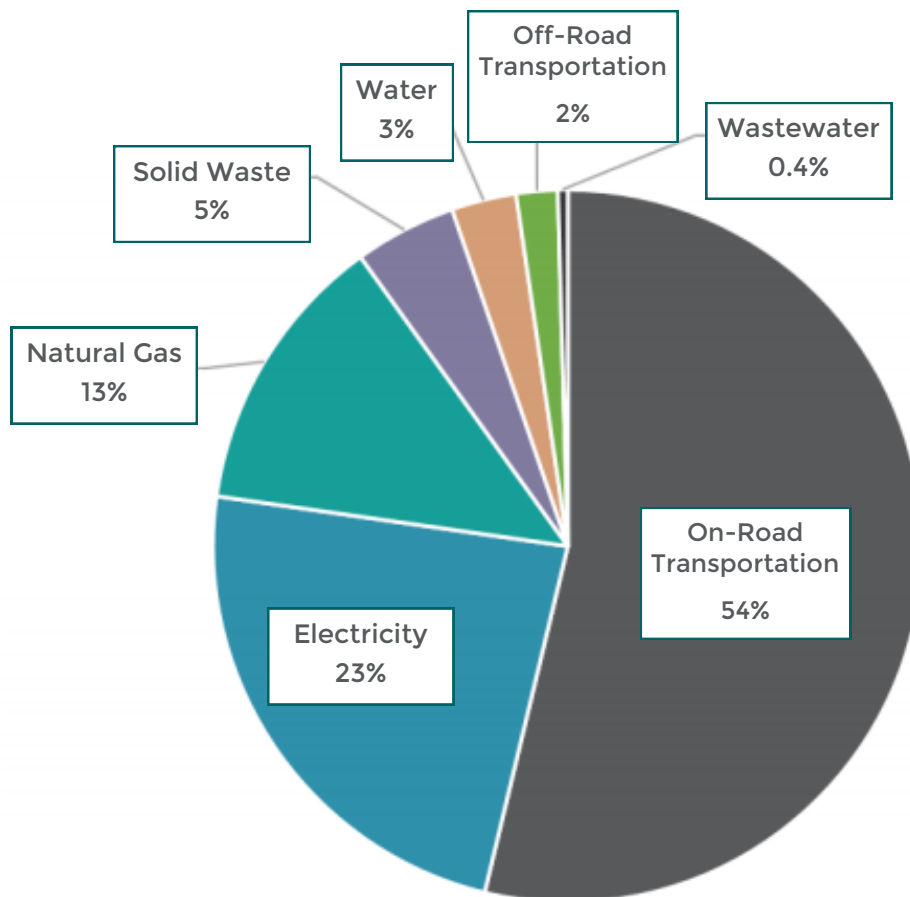
GHGs are emitted when fossil fuels are burned for activities such as electricity generation and transportation. Atmospheric GHG levels can also increase as a result of land use changes like tree removal.

High atmospheric GHG levels trap even more heat from the sun, leading to climate change.

Even small shifts in global climate lead to more extreme weather events such as prolonged drought, increased flooding, and extreme heat waves.



The City's latest GHG emissions inventory is an estimate of the emissions of gases that contribute to global climate change released within the City during 2012, by source category.



The City aims to reduce GHG emissions from this 2012 baseline by:

13% by 2020
and
41% by 2030

RESULTS:

In 2012 the City generated

483,773 metric tons of GHGs

This total is equivalent to:

Combusting
54 million gallons
of gasoline

Burning
258,000 tons
of coal

One year's worth of
carbon
sequestration from
458,000 acres
of U.S. forests

CITY OF ENCINITAS 2018 Climate Action Plan



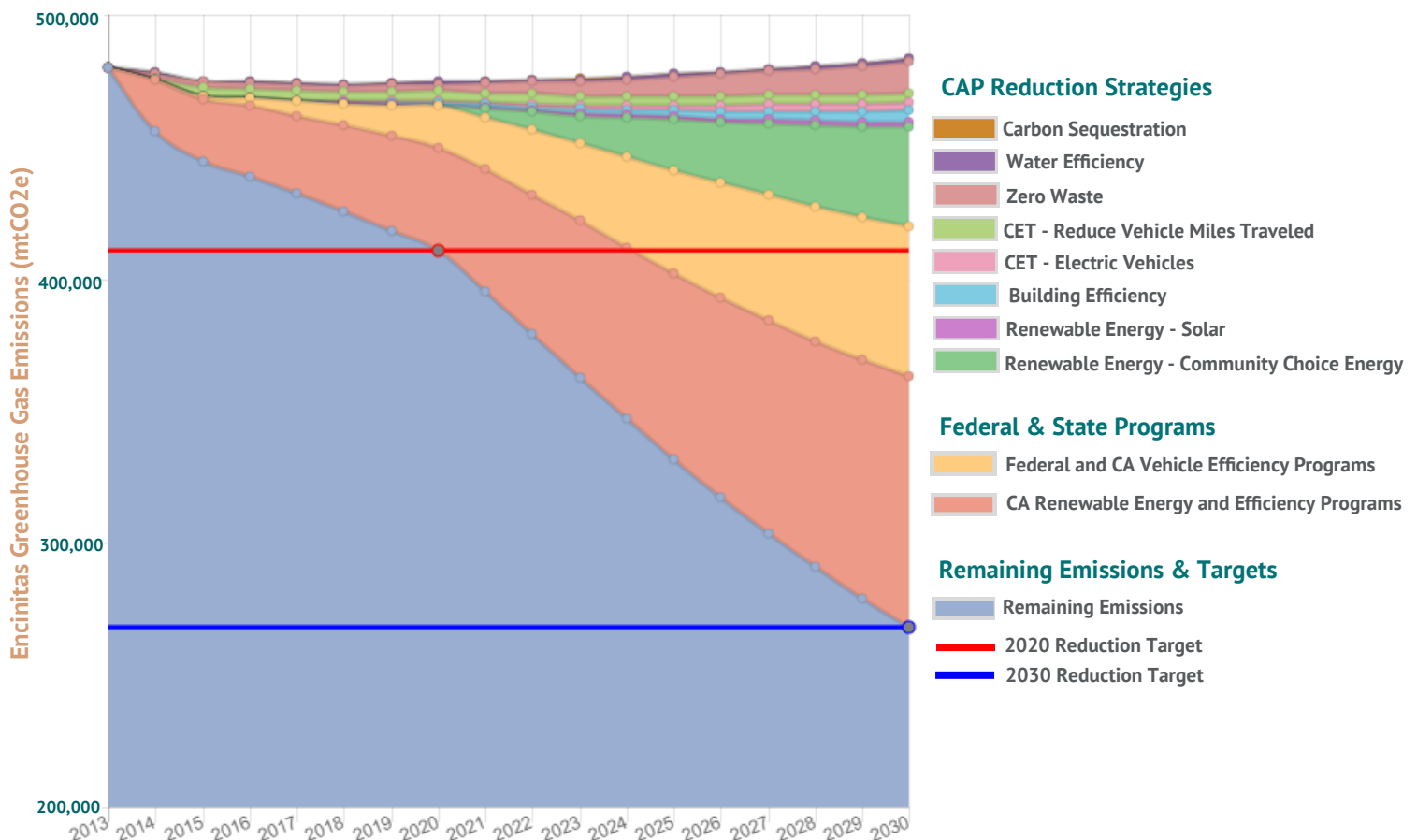
What is a Climate Action Plan?

Encinitas's 2018 Climate Action Plan (CAP) provides a comprehensive roadmap to address climate change in our community. The diagram below shows how each step will take us closer to our emission reduction goals

Our CAP outlines actions to take within **7 Strategies** that we will implement to reduce the City's greenhouse gas (GHG) emissions and build our community's resilience.



Estimated GHG Emissions Reduction from Selected Strategies



You Can Reduce Your Emissions Too!



Strategy 1:

Building Efficiency



Reduce your home's energy use!

- Take an SDG&E Home Energy Survey to see how you could save energy and money.
- Replacing spent incandescent bulbs with energy efficient LEDs. LEDs are 6 times as efficient and last about 20 times longer.

Strategy 2:

Renewable Energy



Our sunny weather is ideal for solar power!

- Consider installing a solar photovoltaic system to your home or business.
- Check out state rebates, Property Assessed Clean Energy (PACE), and utility programs for resources to finance your project.

Strategy 3:

Water Efficiency



Did you know that most of our community's water use goes to outdoor irrigation?

- Convert your landscaping to xeriscape to cut back on water consumption and beautify the community.
- Install a rain barrel to reduce your reliance on imported water.

Strategy 4:

Clean & Efficient Transportation



On-Road Transportation caused 54% of the City's GHG emissions in 2012!

- Consider carpooling, taking the train, boarding a bus, walking, biking, or driving a cleaner vehicle (like a hybrid or electric car) to reduce your transportation's carbon footprint.

Strategy 5:

Reduce Off-Road Equipment



The two-stroke engines in some garden equipment emit many harmful gases.

Try switching to cleaner alternatives such as a rake or an electric leaf-blower.

Strategy 6:

Zero Waste



Organic waste emits methane, a powerful GHG, when disposed of in landfills

- Reduce your food waste by planning out your grocery trips and meals.
- Prevent methane emissions by diverting your food and yard waste away from landfills through composting.

Strategy 7:

Carbon Sequestration



Plants naturally remove carbon dioxide, the most prevalent GHG, from the atmosphere as they grow.

Increase our community's carbon sequestration capacity by planting a tree.

Want to Learn More?

Check out our Climate Dashboard at

EncinitasEnvironment.org

Website update coming soon!